64-918 [redacted] 25X1

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GROUP - 1
Excluded from
Automatic
Downgrading and
declassification

Fal Gpt. 18 September 1964
2 Oct. 64

U. S. Government

25X1 [redacted]

The dwgs. attached are the dwgs. approved by the monitor on 14 & 15 Sept. at [redacted] San Jose. 25X1
advised.
GPX.

25X1 Subject: Contract [redacted] Sales Order 1-10025-1

Gentlemen:

We are pleased to provide the first in a series of Monthly Progress Reports covering the effort expended on subject contract.

Following receipt of the contract, [redacted], was engaged to design and install cleanroom facilities. [redacted] founded over a decade ago, has designed and installed superclean environments in more than 100 manufacturing plants, research laboratories, and government centers. 25X1 25X1

5X1 The [redacted] installation will be a prefabricated, modular, controlled-environment area with more than 1200 square feet of floor space. Two entrance-exit units will be installed at strategic locations. The entrance-exit units are prepackaged air showers that are scientifically designed to provide a shower of ultraclean air to dislodge dust and lint particles from the clothing and person of those entering the cleanroom area. Accidental room contamination is prevented by an electrical door-interlock alarm system.

The clean area will consist of two rooms for installation of processing equipment, a sensitometric exposure room, and a photographic evaluation laboratory. Each of the four rooms will have stainless-steel walls and ceilings and a conductive linoleum floor to eliminate static electricity.

A 10-ton air-conditioning system will be installed. Incoming air will be filtered to 1-micron purity under nonoperating conditions. Temperature and humidity controls will permit the adjustment of these two parameters to suit tests being conducted.

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The working floor in the cleanroom area will be approximately 30 inches above the existing floor. This will permit installation of chemical lines, water lines, and electrical conduit to a film processor which will be mounted on a concrete load-block that is flush with the working floor.

Offices, laboratories, and support equipment for the research laboratory, will be located in areas adjacent to and around the perimeter of the cleanroom laboratory. Considerable design effort has been directed toward a layout that will provide an efficient and functional arrangement. After initial study and evaluation of these activities was completed, a layout of the entire facility was prepared. [redacted] 25X1 a licensed structural engineering firm, was engaged to prepare the final architectural drawings. A copy of the floor plan is attached to this report.

Halls and exits have been properly located and spaced to provide safe, rapid egress under emergency conditions. Initial discussions with city engineers were conducted, prior to obtaining construction permits, to resolve any safety problems. Although they are not shown in the layout, protective hoods and safety showers will be installed in the chemical laboratory. An additional safety shower will be installed in the chemical mixing area at a later date if dangerous color chemicals are used.

Further evaluation of the layout submitted in the technical proposal showed that an improvement could be made by relocating the chemical mixing facilities. This modification enables the raw chemicals to be more easily moved from the receiving area to a mixing area adjacent to the HTA-5 service unit. The new layout also permits the existing chemical laboratories to remain intact. In addition, a new entrance from the hall to the analytical chemistry laboratory will permit entrance to or exit from that room without disturbing operations in any adjacent area.

The necessity for pure water for chemical mixing was investigated, and a water deionizing system was installed. Water from the city supply line now flows through a mixed-resin bed and is piped to chemical mixing and laboratory areas through polyvinyl chloride pipes. Silver-plated faucets at the outlets insure that the water will not be contaminated. An indicating system on the resin bed shows when it must be replaced.

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Discussions with city engineers will be held to verify that discharge of photographic chemicals into the city sewage system will be conducted in accordance with approved methods.

The following activities are scheduled for the next reporting period:

1) Initial approval of the preliminary [ ] design will be finalized by 4 September. 25X1

2) Architectural plans for the laboratory will be completed by 10 September and submitted for issuance of construction permits.

25X1 3) Modular [ ] units will be received about 1 October.

25X1 4) Installation of the [ ] facility will begin during the second week of October, providing construction permits have been received by that time.

5) Evaluation of the positive-pressure and negative-pressure vacuum capstans will begin about 15 September.

During the period covered by this report (1 July to 1 September 1964) actual expenditure of funds has been minimal since a majority of this preliminary work has been accomplished by the structural engineer and the [ ] Funds committed through 1 September 1964 are approximately [ ]
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If you should have any questions or desire further information, please do not hesitate to contact us.

Very truly yours,

[ ] 25X1

Contract Administrator

MCM/bls
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